

### **REMARKS**

Please reconsider the application in view of the above amendments and the following remarks. Applicant thanks the Examiner for carefully considering this application and for courtesy extended during the interview of April 19, 2005.

#### **Disposition of Claims**

Claims 1-15 are pending in this application. Claim 1 is independent. The remaining claims depend, directly or indirectly, from claim 1.

#### **Amendments to the claims**

As suggested by the Examiner during the April 19, 2005 interview, claim 1 has been amended to clarify the invention recited. No new matter has been added by this amendment.

#### **Rejection(s) under 35 U.S.C § 103**

Claims 1-15 were rejected under 35 U.S.C. § 103(a) as being obvious over Fraivillig (U.S. Patent No. 6,015,607) ("the Fraivillig '607 patent"). This rejection is respectfully traversed.

The present invention relates to methods for manufacturing a flexible printed circuit bounded to a heat sink. A method in accordance with one embodiment of the invention, as recited in claim 1, includes two bonding steps: (1) adhering a conductive layer to a first surface of a bond film *in a first bonding step* using a first adhesive layer to produce a

circuit substrate, wherein the adhering is achieved by *partially activating the first adhesive layer* such that the conductive layer is tack-bonded to the bond film; processing the circuit substrate to produce the flexible printed circuit; and (2) laminating, *in a second bonding step*, the heat sink to a second surface of the bond film of the flexible printed circuit using a second adhesive layer.

In contrast, the Fraivillig '607 patent discloses methods for making flexible laminates using a polyetherimide or a siloxane polyetherimide copolymer. (Abstract). It does not teach or suggest a two-step bonding process in which an adhesive layer is only *partially activated in the first bonding step*.

In view of the above, the Fravillig '607 patent fails to teach or suggest the present invention as recited in claim 1. Therefore, claim 1 is patentable over the Fraivillig '607 patent. Claims 2-15 depend, directly or indirectly, from claim 1 and, therefore, are patentable for at least the same reasons. Accordingly, withdrawal of this rejection is respectfully requested.

## Conclusion

Applicant believes this reply is fully responsive to all outstanding issues and places this application in condition for allowance. If this belief is incorrect, or other issues arise, the Examiner is encouraged to contact the undersigned or his associates at the telephone number listed below. Please apply any charges not covered, or any credits, to Deposit Account 50-0591 (Reference Number 07009.011002).

Respectfully submitted,

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